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AUTHOR McClurg, Ronald B.
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ABSTRACT

An analysis of survey responses from a sample of nuclear medical technicians on competency characteristics for their occupation is presented in this document. (Nuclear medical technician is one of seventeen occupation groups included in this research.) The competencies are reported in five categories: (1) those competencies selected by the respondents from a list of 720 health occupations competencies; (2) the percentage rate which respondents reported practicing the competency item; (3) type of competency (indicated as the performance of a physical skill or action, or an understanding or mental comprehension); (4) use frequency (daily, weekly, monthly); and (5) training needed to achieve proficiency in that competency (formal instruction, demonstration, on-the-job). (The final report of the survey is available as CE 018 899. Survey results for the other occupational groups are also available--see CE 018 900-916.) (JH)

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Ronald B. McClurg, Ph.D.

Des Moines Area Community College

2006 Ankeny Boulevard

Ankeny, Iowa 50021

Common Intra-Cluster Competencies Needed in Selected Occupational Clusters

Supplemental Volume XI: Nuclear Medical Technician

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U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
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Forward

This volume contains detailed competency characteristics collected in the vocational education research project entitled "Common Intracluster Competencies Needed in Selected Occupational Clusters - Health Occupations".

The information herein summarizes the responses of one of the seventeen occupational groups included in the research. The study included 720 individual competency items, both skills and understandings, which were presented to a sample of health occupation employees in Iowa and/or the central states area.

The data included in this volume summarizes the responses by those surveyed in the occupation listed on the cover.

Description of the Data

Essentially five competency characteristics are presented on the pages that follow. The total number of respondents to the survey is indicated following the table heading in the format N=__. Those characteristics include:

1. Competencies reported by respondents -

   The first column is a list of the competencies reported by respondents. Each competency carries the item number from the comprehensive listing utilized in the research process and as presented in the main report. Competencies not reported by respondents were not included to preserve space.

2. Practice rate -

The second column presents the percentage rate which respondents reported practicing the competency item. Practice rates of fifteen percent or less are indicated by an asterisk (*) and lack additional characteristic percentage computations because of their small cell size.

The remaining three competency characteristics represent responses of those who indicated that they practiced the competency.

3. Type of competency -

Columns three and four indicate the percentage of the type of competency which respondents indicated characterized the nature of their activity. An "S" indicates the performance of a physical skill or physical action, while a "U" reflects that an understanding or mental comprehension only was needed for the competency. (See the Glossary in the main report for working definitions of skill and understanding).

4. Use frequency -

Distribution of the percentage of frequency which competencies were practiced, for those who reported possession of them, is presented in columns five, six, and seven. "D" in column five represents a competency exercised daily, "W" in column six represents a weekly frequency, while "M" in column seven reflects monthly or less frequent practice.

5. Training needed -

The final three columns summarize the percentage distribution of the nature of training which respondents felt was necessary to achieve proficiency in the competency. The "I" in column eight represents formal instruction, such as would be presented in an academic setting. A "D" (column nine) indicates that a demonstration of how to perform the competency is all that is needed to achieve proficiency, while "E" in column ten indicates that on-the-job exposure is adequate for developing the competency.

Rounded, whole-number percent figures were used in the preparation of this report, since the findings were considered to represent trends more than finite characteristics. Multiple column computations were forced to total 100 percent by the rounding process except for those items where equal numbers in each of three columns were reported. In those cases the total of 99 percent reflects all responses reported.

Using the Data

Possible uses and applications of the data are presented in the main body of the research report. The material presented in this supplementary volume will be of most value to those concerned solely with the occupational field which is treated herein.

Competency Characteristics Reported by NUCLEAR MEDICAL TECHNICIAN (by percent) N=24

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
1.	Seek guidance to improve performance in patient care.	75	83	17	50	33	17	33	17	50
2.	Participate in/conduct demonstrations of procedures and equipment (in-service).	87	100	0	23	8	69	83	17	0
3.	Orient new personnel to unit facilities, routines and other personnel.	63	60	40	20	0	80	20	40	40
4.	Advise health professionals on the technicalities and procedures involved in operating special equipment.	67	70	30	30	20	50	80	20	0
5.	Practice established routines and policies of the health care facility.	63	80	20	80	20	0	40	20	40
6.	Supervise subordinates within the health care facility.	87	38	62	64	20	16	69	0	31
7.	Give "on-the-job" instruction.	88	86	14	57	14	29	42	29	29
8.	Advise staff concerning medical jurisprudence.	33	20	80	60	0	40	80	0	20
10.	Establish work priorities and schedule work assignments.	67	70	30	100	0	0	10	30	60
11.	Identify operational deficiencies and recommend corrections.	63	40	60	20	20	60	40	20	40
12.	Evaluate subordinate employee performance.	67	40	60	40	0	60	80	10	10

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
13.	Develop job description.	38	67	33	0	0	100	67	33	0
14.	Consult with health professionals on purchasing/ constructing/using special appliances.	67	30	70	0	10	90	50	0	50
15.	Interview/evaluate/hire prospective personnel.	25	50	50	0	0	100	50	50	0
16.	Maintain standards of employees' personal hygiene as related to job performance.	53	38	62	50	0	50	12	13	75
17.	Insure that all subordinates are on duty.	25	50	50	100	0	0	0	50	50
18.	Attend and participate in staff meetings.	67	50	50	0	30	70	20	0	80
19.	Develop policies and establish departmental procedures.	63	60	40	0	0	100	40	20	40
20.	Inform personnel of new or changed policies and procedures.	47	43	57	14	14	72	29	14	57
22.	Review and approve employee's payroll time and salary.	20	33	67	0	100	0	0	33	67
23.	Coordinate work schedules with other departments.	50	72	25	75	25	0	25	25	50
24.	Teach special procedures to department members/ students/health care professionals.	73	100	0	8	27	65	82	9	9
25.	Teach safety techniques as needed.	75	83	17	33	17	50	33	33	33

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
26.	Develop hospital disaster plan.	27	50	50	25	0	75	25	0	75
27.	Inform personnel of potential hazards in their working areas.	38	33	67	100	0	0	0	67	33
28.	Demonstrate tact in giving and withholding information concerning patient care/operations of the health care facility.	87	38	62	64	7	29	31	15	54
29.	Represent the department and facility at community meetings.	25	50	50	0	0	100	50	50	0
30.	Attend meetings and participate in community activities related to doctor's practice.	20	33	67	0	0	100	0	0	100
32.	Assist in the orientation of volunteers, students, and new staff.	80	50	50	0	9	91	25	8	67
34.	Train volunteers in specific techniques.	20	100	0	0	33	67	33	0	67
36.	Conduct tours of facilities.	53	38	62	0	13	87	12	13	75
38.	Inventory, sign for, and place patient's personal possessions in safe place.	20	67	33	100	0	0	0	0	100
40.	Assist patient in and out of bed.	67	90	10	80	10	10	10	40	50
41.	Assist patient in walking.	50	100	0	75	25	0	0	33	67
42.	Transport patient on stretcher/wheelchair.	80	100	0	67	17	16	8	42	50

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
44.	Assist patient in use of commode, urinal, or bedpan.	80	92	8	42	16	42	8	33	59
46.	Assist in resolving patient complaints.	53	63	37	63	12	25	12	38	50
47.	Obtain signature on various patient/family consent forms.	25	100	0	50	50	0	0	50	50
51.	Obtain information from patient/family.	50	100	0	75	25	0	25	50	25
53.	Receive patient, explain tests and procedures to them and ally their fears.	63	60	40	80	20	0	20	40	40
54.	Attend to patient's comfort before, during, and after examination/tests/treatment.	80	83	17	92	0	8	24	17	59
57.	Explain fees to patient.	*								
60.	Explain therapy procedures in lay terms.	20	33	67	100	0	0	100	0	0
61.	Explain follow-up services to patient.	25	50	50	50	50	0	0	0	100
62.	Help patient develop positive attitudes toward their illness/confinement.	27	25	75	25	50	25	50	50	0
63.	Assist in establishing a comfortable relationship between the patient and the health care professional.	38	67	33	67	0	33	33	33	33

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
64.	Observe negative/positive physical and emotional responses to treatments, medications, nursing care, etc.	20	0	100	33	0	67	0	0	100
65.	Interpret patient's signs, symptoms, behavior, etc.	88	71	29	71	29	0	42	29	29
66.	Identify strengths/weakness of care plan.	20	0	100	33	0	67	0	0	100
67.	Observe patient's general physical condition, appearance, and behavior.	38	67	33	67	33	0	33	33	33
69.	Record and chart vital signs, height, weight, and/or other conditions as directed by health care professional.	25	100	0	50	50	0	0	100	0
70.	Account for isotope licensing/procurement.	73	91	9	55	0	45	91	0	9
72.	Maintain a use record on special equipment.	93	86	14	79	0	21	57	14	29
74.	Maintain appointment control.	67	80	20	90	0	10	20	10	70
75.	Complete insurance forms.	25	50	50	100	0	0	0	0	100
77.	Schedule patient treatment sessions.	25	100	0	50	0	50	0	100	0
78.	Maintain record of all requests for patient information.	*								
79.	Obtain charts of patients for whom information is requested.	38	67	33	33	67	0	0	33	67

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
80.	Prepare patient record folder (chart).	20	100	0	100	0	0	0	67	33
82.	Sort/file/organize documents, certificates, patient records, etc.	27	75	25	100	0	0	25	0	75
85.	Maintain and prepare productivity reports.	*								
87.	Prepare daily census.	25	100	0	0	50	50	0	50	50
89.	Process mail and correspondence (both incoming and outgoing).	25	50	50	100	0	0	0	0	100
90.	Process payroll time cards.	27	100	0		50	25	25	0	75
92.	Prepare requisitions.	40	67	33	33	17	50	0	17	83
93.	Handle telephone calls.	88	57	43	86	14	0	0	43	57
95.	Prepare correspondence/report/summary (not forms).	38	100	0	33	0	67	0	67	33
96.	Direct storage/issue/safeguarding of security items.	*								
97.	Mount, label, and file radiographs.	50	100	0	25	50	25	0	75	25
98.	Maintain a patient recall system.	*								
102.	Check/maintain charting of treatments and medications, procedures, orders, observations.	27	75	25	75	0	25	0	0	100

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
104.	Gather data to complete reports for government agencies.	47	71	29	0	13	87	39	23	38
105.	Receive and organize handling of medication samples.	*								
111.	Maintain catalogs of supplies and equipment.	38	100	0	67	33	0	0	33	67
112.	Prepare statistical reports in regard to patient visits and procedures.	*								
113.	Maintain a fee schedule for services.	38	100	0	33	0	67	0	33	67
114.	Record information on blood record card.	*								
115.	Follow established procedure in filing incident reports.	38	33	67	0	0	100	0	100	0
116.	Process loans of X-ray films.	*								
118.	Receive and record physician's verbal orders.	40	67	33	67	0	33	17	50	33
120.	Follow established procedures for processing authorization/accident report forms (autopsy, surgery, diagnostic tests, discharge forms).	40	67	33	17	0	83	17	17	66
122.	Adjust side rails and height of bed.	33	100	0	40	0	60	0	40	60
123.	Open sterile packages and packs	63	100	0	60	0	40	0	60	40

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
128.	Turn and place patient in correct body alignment.	27	100	0	100	0	0	100	0	0
141.	Test urine for sugar and acetone.	*								
142.	Chemically prepare short-life isotopes (direct methods, and eluting a prepared column).	80	83	17	100	0	0	100	0	0
143.	Calibrate isotopes against a standard.	75	100	0	67	33	0	67	33	0
144.	Prepare oral dose using measure for manufacturers bottle/by mixing and diluting.	47	86	14	57	0	43	86	0	14
145.	Prepare injections using measured/sterilized dose.	88	100	0	86	14	0	71	29	0
146.	Set up instruments for operation in vitro/vivo studies.	80	100	0	85	0	15	83	17	0
147.	Make simple dose calculations for in vitro/vivo examinations.	88	100	0	86	14	0	100	0	0
148.	Accumulate and process data for doctor's interpretation.	73	91	9	82	0	18	73	18	9
150.	Make simple dose calculations for tracer examinations.	80	83	17	85	0	15	85	15	0
151.	Evaluate adequacy of work space.	38	33	67	0	0	100	0	33	67
152.	Examine scan test results for general credibility.	73	73	27	91	0	9	91	9	0

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
153.	Receive specimen from patient, record pertinent data on container, and place in proper storage.	50	75	25	100	0	0	25	75	0
154.	Select proper accessories for radiographic techniques.	53	100	0	88	0	12	88	12	0
155.	Improvise or modify equipment for special requirements.	50	100	0	0	0	100	0	25	75
157.	Operate a rectilinear scanner for conventional scanning/slow dynamic studies.	40	100	0	50	17	33	83	17	0
159.	Operate a scintillation camera for slow dynamic/ static studies.	40	86	14	86	14	0	86	14	0
161.	Assay wet chemical solutions for activity and contaminants.	88	86	14	70	15	15	100	0	0
162.	Operate an autofluorescope for static/fast/ slow dynamic studies.	20	67	33	67	0	33	100	0	0
163.	Know and apply basic first aid techniques including artificial respiration and cardiac resuscitation.	50	100	0	0	0	100	100	0	0
164.	Monitor radiation levels in compliance with hospital regulations.	80	92	8	67	25	8	83	17	0
180.	Take and process X-rays.	47	100	0	100	0	0	100	0	0

	Competency	Practice Rate	Type S	Type U	Use Frequency D	Use Frequency W	Use Frequency M	Training Needed I	Training Needed D	Training Needed E
181.	Practice patient and operatory safety measures and radiation.	38	100	0	100	0	0	100	0	0
182.	Administer intravenous fluids, blood, etc.	67	100	0	90	0	10	100	0	0
184.	Adjust voltage, amperage, and timer of X-ray machine.	40	100	0	100	0	0	100	0	0
221.	Prepare statistical reports.	50	100	0	25	0	75	25	75	0
223.	Inform and advise administration as to trends and significant data.	25	100	0	0	0	100	0	100	0
224.	Provide reports or extract data for Medical Staff Committees.	*								
225.	Check records (charts) for deficiencies.	*								
232.	Notify physicians concerning incomplete records.	*								
234.	Type information onto various forms.	*								
235.	Change discs, belts, or tapes on recording equipment.	*								
236.	Maintain daily production record.	33	80	20	100	0	0	20	20	60
404.	Exercise precaution in administering and handling potentially dangerous agents.	20	100	0	100	0	0	100	0	0

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
408.	Regulate intravenous fluids.	20	67	33	33	0	67	0	67	33
418.	Give oral medications.	*								
428.	Obtain blood specimen from capillary.	*								
429.	Obtain blood specimen from vein.	50	100	0	100	0	0	50	50	0
430.	Prepare and stain blood smears.	*								
431.	Perform hemoglobin test/hematocrit reading.	38	100	0	33	33	33	67	33	0
435.	Operate colorimeter/hemoglobinometer/micro-hematocrit reader.	25	100	0	0	50	50	50	50	0
436.	Operate manual/automatic cell counting equipment.	20	100	0	33	0	67	100	0	0
443.	Use sterilization color indicators to test sterilizer.	*								
444.	Handle and store sterilized material to prevent contamination.	*								
450.	Review and confirm doctor's orders to administer an injection.	27	75	25	100	0	0	50	0	50
452.	Describe the nature of patient's illness or injury.	27	50	50	75	0	25	50	0	50

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
490.	Perform hematocrit tests.	40	83	17	0	33	67	67	33	0
551.	Centrifuge and separate serum from clot.	25	100	0	50	0	50	50	50	0
586.	Review patient's clinical history.	47	71	29	86	0	14	42	29	29
587.	Load and unload film units.	50	100	0	50	25	25	0	75	25
588.	Affix lead shield to cassette for identification.	33	100	0	80	0	20	40	60	0
589.	Prepare contrast media such as barium sulphate.	25	100	0	50	50	0	0	50	50
590.	Administer radiopaque preparations.	33	80	20	50	0	50	50	50	0
591.	Take X-rays (dental/abdominal/spinal/chest/etc.).	*								
592.	Take X-rays of ribs and sternum, extremities.	27	100	0	33	33	33	100	0	0
593.	Operate image itensifier fluroscopic units.	*								
594.	Operate mobile X-ray units.	27	100	0	33	33	33	100	0	0
595.	Assist with cerebral angiograms, bronchiograms, arthrograms, hysterosalpingograms.	*								
596.	Assist with laminograms, mammograms, chlogiograms, intravenous pyelograms and Iv's.	27	100	0	33	33	33	100	0	0

	Competency	Practice Rate	Type S	Type U	Use Frequency D	Use Frequency W	Use Frequency M	Training Needed I	Training Needed D	Training Needed E
597.	Assist with sialograms, scanograms, pneumoencephalograms, urographic studies.	25	100	0	0	50	50	100	0	0
598.	Assist with upper GI series, stereoscopic X-rays, ventricueograms.	27	100	0	33	33	33	100	0	0
599.	Assist with X-rays for cholecystographic studies.	25	100	0	0	100	0	100	0	0
600.	Assist with X-rays for contrast studies of large bowel or colon and esophagus.	27	100	0	33	33	33	100	0	0
601.	Assist with X-rays of small intestine, pelvimetric studies.	25	100	0	0	100	0	100	0	0
602.	Assist with fistula or sinus tract X-rays.	27	100	0	33	33	33	100	0	0
608.	Administer oxygen by mask, tent, nasal devices, incubator.	47	100	0	17	17	66	17	66	17
610.	Perform artificial respiration.	33	100	0	0	0	100	75	25	0
621.	Mix and measure drug doses.	*								
622.	Recognize expected reactions to treatment.	20	100	0	50	0	50	100	0	0
623.	Recognize complications of adverse reactions to treatments.	50	75	25	25	0	75	50	25	25
624.	Minimize hazards throughout the health care facility.	20	67	33	33	0	67	67	0	33

	Competency	Practice Rate	Type S	Type U	Use Frequency D	Use Frequency W	Use Frequency M	Training Needed I	Training Needed D	Training Needed E
625.	Arrange equipment for convenient and safe use.	63	80	20	40	0	60	20	40	40
627.	Accurately measure body temperature and read clinical thermometer for oral, rectal and axillary temperature.	*								
628.	Operate and adjust examining tables.	*								
629.	Instill solutions into eye, ear, nose.	*								
630.	Prepare medications.	*								
631.	Read cardiac monitors.	*								
634.	Knows routine for fire in patient area and demonstrates knowledge of procedures for securing the building and reassuring and aiding patients.	53	63	37	13	0	87	0	88	12
635.	Has an understanding of fire prevention and control.	50	25	75	75	0	25	50	50	0
645.	Immediately report deviations of patient's vital signs from the normal.	*								
646.	Follow procedures in care of isolated patients.	33	60	40	0	0	100	20	80	0
647.	Instruct patient with regard to collection of specimen (fecal, urine, eye, nose, throat).	50	100	0	0	0	100	0	75	25

	Competency	Practice Rate	Type S	Type U	Use Frequency D	Use Frequency W	Use Frequency M	Training Needed I	Training Needed D	Training Needed E
651.	Direct patient to project completion by praise and encouragement.	25	100	0	100	0	0	0	100	0
668.	Administer medications/isotopes to patients by injection/orally.	67	100	0	100	0	0	100	0	0
669.	Perform superficial/specialized examination of patients.	25	100	0	0	50	50	100	0	0
670.	Abstract simple data from patient's chart.	47	100	0	86	0	14	57	14	29
671.	Position, gown/drape patient.	25	100	0	50	50	0	0	100	0
672.	Prep patient using correct procedures and solutions.	20	100	0	67	0	33	67	0	33
688.	Deliver/remove equipment/supplies from contaminated room.	20	100	0	0	67	33	67	0	33
689.	Dispose of contaminated materials and equipment.	63	100	0	80	20	0	40	60	0
690.	Change soiled linen and clothes.	27	100	0	50	0	50	25	25	50
692.	Clean and maintain service area and equipment, within area of responsiblity.	73	100	0	91	0	9	45	18	37
693.	Order/inventory and store equipment and supplies.	75	83	17	33	67	0	0	50	50

	Competency	Practice Rate	Type		Use Frequency			Training Needed		
			S	U	D	W	M	I	D	E
694.	Calibrate nuclear medical instruments.	87	85	15	85	0	15	92	8	0
695.	Verify performance of instruments/devices against manufacturer's specifications.	38	100	0	67	0	33	0	33	67
696.	Determine if equipment needs repair.	100	80	20	80	0	20	74	13	13
697.	Schedule/perform maintenance on equipment.	63	100	0	0	20	80	20	40	40
698.	Store/handle radioisotopes safely.	93	86	14	93	0	7	93	7	0
699.	Safely dispose of radioactive wastes.	88	100	0	43	57	0	70	15	15
700.	Inventory radiopharmaceuticals and materials.	87	85	15	69	23	8	62	23	15
702.	Clean, sharpen and maintain instruments/ equipment as required.	60	89	11	89	0	11	44	33	23
703.	Control contractual services for maintenance of equipment/facilities.	*								
704.	Maintain unexposed radiographic film storage.	67	80	20	80	0	20	10	50	40
706.	Prepare instruments for sterilization (chemical, autoclaving, dry heat).	20	100	0	67	0	33	33	33	33
707.	Sterilize instruments (chemical, autoclaving, dry heat).	25	100	0	0	0	100	50	50	0

	Competency	Practice Rate	Type S	Type U	Use Frequency D	Use Frequency W	Use Frequency M	Training Needed I	Training Needed D	Training Needed E
708.	Inspect all areas and rooms for proper housekeeping, temperature, and adequate supplies.	47	86	14	100	0	0	0	14	86
711.	Check and record temperatures of appliances/ equipment.	25	100	0	100	0	0	0	50	50
712.	Store/dispose of used blood containers and pilot tubes.	20	100	0	67	0	33	33	0	67
713.	Check invoices against purchase orders.	38	67	33	100	0	0	0	33	67
714.	Organize storage areas for equipment, supplies, drugs.	40	100	0	83	0	17	0	17	83
716.	Schedule regular checks for radiation leakage.	53	100	0	50	38	12	100	0	0
717.	Check radiation monitoring badges.	25	50	50	50	0	50	100	0	0
718.	Evaluate and select odor controlling aerosols.	*								
719.	Follow procedures for control and security of medical supplies, drugs, equipment.	38	33	67	67	0	33	67	33	0